### AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

# LISTING OF CLAIMS:

1-24. (canceled)

25. (currently amended) A negative-resistance circuit having, comprising:

a transistor; [[and]]

<u>a plurality of</u> distributed constant lines respectively connected to three terminals thereof, said negative-resistance circuit characterized by comprising:;

an output terminal connected to one of said three terminals;

an inductance element connected between an said output terminal of said negative resistance circuit and a ground potential for adjusting, said inductance element being adjustable so as to adjust a negative resistance value; and

a plurality of another distributed constant lines line connected in parallel to at least one of the three terminals of said transistor.

26. (currently amended) The negative-resistance circuit according to claim 25, wherein:

said inductance element comprises [[a]]  $\underline{yet}$  another distributed constant line shorter than one-quarter wavelength at a desired frequency for connecting between a signal conductor  $\underline{of}$  said inductance element and the ground potential.

27. (currently amended) The negative-resistance circuit according to claim 25, wherein:

said <u>yet another</u> distributed constant line is a coplanar type one composed of a signal conductor and ground conductors disposed to sandwich said signal conductor with predetermined gaps therebetween, and

said inductance element comprises a conductor piece which traverses only one of said gaps to connect said signal conductor with said ground conductor.

28. (currently amended) A negative-resistance circuit having, comprising:

a transistor; [[and]]

<u>a plurality of</u> distributed constant lines respectively connected to three terminals thereof, said negative resistance circuit characterized by comprising:

an output terminal connected to one of said three
terminals;

a capacitance element connected between [[an]] <u>said</u> output terminal <u>of said negative-resistance circuit</u> and a ground

potential for adjusting, said capacitance element being adjustable so as to adjust a negative resistance value[[,]]; and

a plurality of another distributed constant lines line connected in parallel to at least one of the three terminals of said transistor.

29. (currently amended) The negative-resistance circuit according to claim 28, wherein:

said capacitance element comprises [[a]] <u>yet another</u> distributed constant line which is branched from a signal conductor <u>of said capacitance element</u>, has an opened leading end, and is shorter than one-quarter wavelength at a desired frequency.

30. (currently amended) The negative-resistance circuit according to claim 28, wherein:

said <u>yet another</u> distributed constant line is a coplanar type one composed of a signal conductor and ground conductors disposed to sandwich said signal conductor with predetermined gaps therebetween, and

said capacitance element comprises a conductor piece which is branched from said signal conductor and has an opened leading end.

#### 31. (canceled)

32. (currently amended) The negative-resistance circuit according to claim 25, wherein:

one of said plurality of distributed constant lines connected in parallel is a distributed constant line which is longer than one-quarter wavelength and shorter than one-half wavelength at a desired frequency, and has a leading end connected to a ground potential.

33. (currently amended) The negative-resistance circuit according to claim 25, wherein:

one of said plurality of distributed constant lines connected in parallel is a distributed constant line which is shorter than one-quarter wavelength at a desired frequency, and has an opened leading end, and

the remaining others of said plurality of distributed constant lines and said another distributed constant line are distributed constant lines each having a leading end short-circuited to a ground potential.

34. (currently amended) The negative-resistance circuit according to claim 28, wherein:

one of said plurality of distributed constant lines <del>connected in parallel</del> is a distributed constant line which is longer than one-quarter wavelength and shorter than one-half wavelength at a desired frequency, and has a leading end connected to a ground potential.

35. (currently amended) The negative-resistance circuit according to claim 28, wherein:

one of said plurality of distributed constant lines connected in parallel is a distributed constant line which is shorter than one-quarter wavelength at a desired frequency, and has an opened leading end, and

the remaining others of said plurality of distributed constant lines and said another distributed constant line are distributed constant lines each having a leading end short-circuited to a ground potential.

36-37. (canceled)

38. (currently amended) The negative-resistance circuit according to claim 25, wherein:

said transistor is a field effect transistor, and said terminal to which said <del>plurality of</del> distributed constant lines are connected in parallel is a source of said field effect transistor.

39. (currently amended) The negative-resistance circuit according to claim 28, wherein:

said transistor is a field effect transistor, and

said terminal to which said <del>plurality of</del> distributed constant lines are connected in parallel is a source of said field effect transistor.

### 40. (canceled)

41. (currently amended) The negative-resistance circuit according to claim 38, wherein:

[[an]] <u>said</u> output terminal of said negative-resistance circuit is disposed through a distributed constant line connected to a gate of said field effect transistor, <u>and</u> wherein:

said negative-resistance circuit <u>further</u> comprises:

a bias power source for supplying said gate with a predetermined DC voltage; and

a resistor connected between said bias power source and said distributed constant line connected to said gate.

42. (currently amended) The negative-resistance circuit according to claim 39, wherein:

[[an]] <u>said</u> output terminal of said negative-resistance circuit is disposed through a distributed constant line connected to a gate of said field effect transistor, <u>and</u> wherein:

said negative-resistance circuit further comprises:

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a bias power source for supplying said gate with a predetermined DC voltage; and

a resistor connected between said bias power source and said distributed constant line connected to said gate.

## 43. (canceled)

44. (previously presented) An active filter comprising:

the negative-resistance circuit according to claim 25; and

a resonator connected in series with said negativeresistance circuit.

45. (previously presented) An active filter comprising:

the negative-resistance circuit according to claim 28; and

a resonator connected in series with said negativeresistance circuit.

### 46. (canceled)